

Andrew Freistein 10/506, 309

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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 4 AUG 11 STN AnaVist workshops to be held in North America
NEWS 5 AUG 30 CA/CAplus -Increased access to 19th century research documents
NEWS 6 AUG 30 CASREACT - Enhanced with displayable reaction conditions
NEWS 7 SEP 09 ACD predicted properties enhanced in REGISTRY/ZREGISTRY
NEWS 8 OCT 03 MATHDI removed from STN
NEWS 9 OCT 04 CA/CAplus-Canadian Intellectual Property Office (CIPO) added to core patent offices
NEWS 10 OCT 06 STN AnaVist workshops to be held in North America
NEWS 11 OCT 13 New CAS Information Use Policies Effective October 17, 2005
NEWS 12 OCT 17 STN(R) AnaVist(TM), Version 1.01, allows the export/download of CAplus documents for use in third-party analysis and visualization tools
NEWS 13 OCT 27 Free KWIC format extended in full-text databases
NEWS 14 OCT 27 DIOGENES content streamlined
NEWS 15 OCT 27 EPFULL enhanced with additional content

NEWS EXPRESS JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

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FILE 'HOME' ENTERED AT 08:37:21 ON 07 NOV 2005

=> file req

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 08:37:32 ON 07 NOV 2005
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STRUCTURE FILE UPDATES: 6 NOV 2005 HIGHEST RN 866821-44-5
DICTIONARY FILE UPDATES: 6 NOV 2005 HIGHEST RN 866821-44-5

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when
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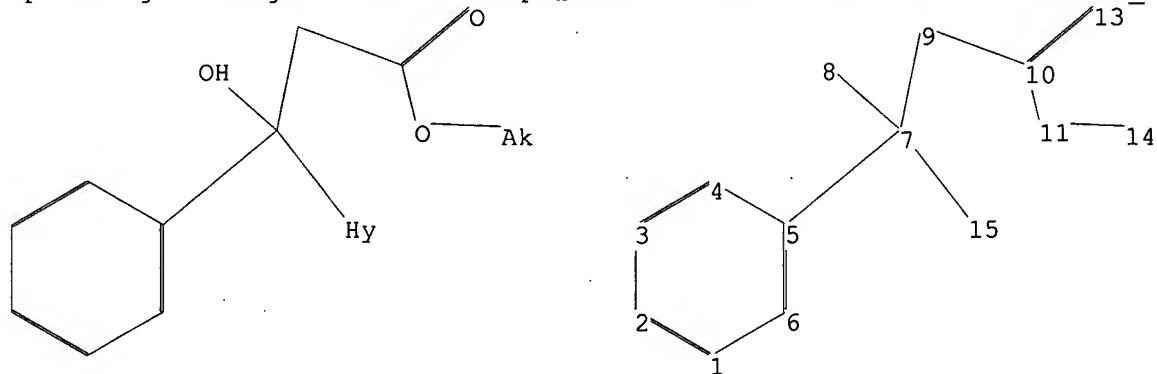
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Structure search iteration limits have been increased. See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
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<http://www.cas.org/ONLINE/UG/regprops.html>

=>
Uploading C:\Program Files\Stnexp\Queries\10506309\FAOM\New Folder\III_b.str



chain nodes :
7 8 9 10 11 13 14 15

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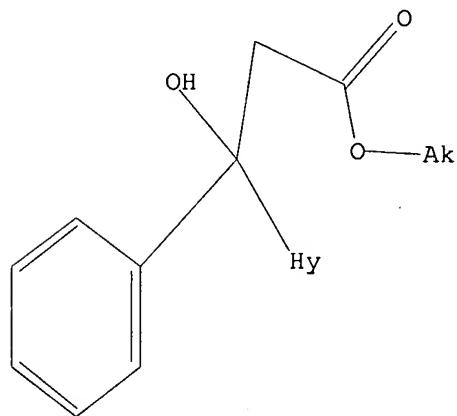
ring nodes :
1 2 3 4 5 6
chain bonds :
5-7 7-9 7-8 7-15 9-10 10-11 10-13 11-14
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact/norm bonds :
7-8 7-15 10-11 10-13 11-14
exact bonds :
5-7 7-9 9-10
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 13:CLASS 14:CLASS 15:Atom
Generic attributes :
15:
Number of Carbon Atoms : less than 7
Type of Ring System : Monocyclic

Element Count :
Node 15: Limited
N, N1

L1 STRUCTURE UPLOADED

=> d
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 11

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SAMPLE SEARCH INITIATED 08:38:01 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 17322 TO ITERATE

11.5% PROCESSED 2000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 338560 TO 354320
PROJECTED ANSWERS: 0 TO 0

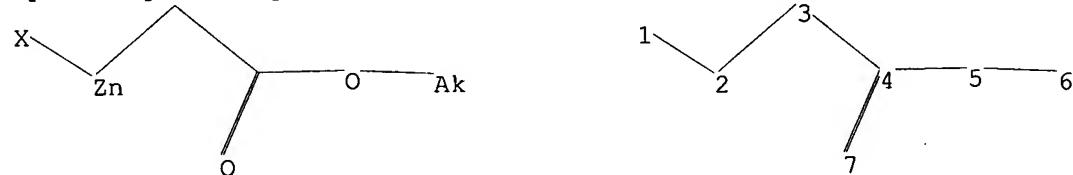
L2 0 SEA SSS SAM L1

=> s 11 full
FULL SEARCH INITIATED 08:38:06 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 343697 TO ITERATE

97.9% PROCESSED 336601 ITERATIONS 34 ANSWERS
100.0% PROCESSED 343697 ITERATIONS 34 ANSWERS
SEARCH TIME: 00.00.22

L3 34 SEA SSS FUL L1

=>
Uploading C:\Program Files\Stnexp\Queries\10506309\FAOM\New Folder\II_b.str



chain nodes :
1 2 3 4 5 6 7
chain bonds :
1-2 2-3 3-4 4-5 4-7 5-6
exact/norm bonds :
4-5 4-7 5-6
exact bonds :
1-2 2-3 3-4

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS

L4 STRUCTURE UPLOADED

=> s 14
SAMPLE SEARCH INITIATED 08:38:57 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 303 TO ITERATE

100.0% PROCESSED 303 ITERATIONS 2 ANSWERS
SEARCH TIME: 00.00.01

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FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 5016 TO 7104
PROJECTED ANSWERS: 2 TO 124

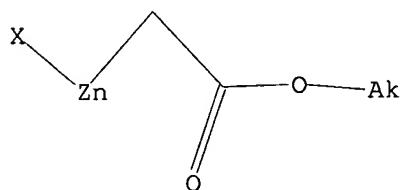
L5 2 SEA SSS SAM L4

=> s 14 full
FULL SEARCH INITIATED 08:39:01 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 5743 TO ITERATE

100.0% PROCESSED 5743 ITERATIONS 54 ANSWERS
SEARCH TIME: 00.00.01

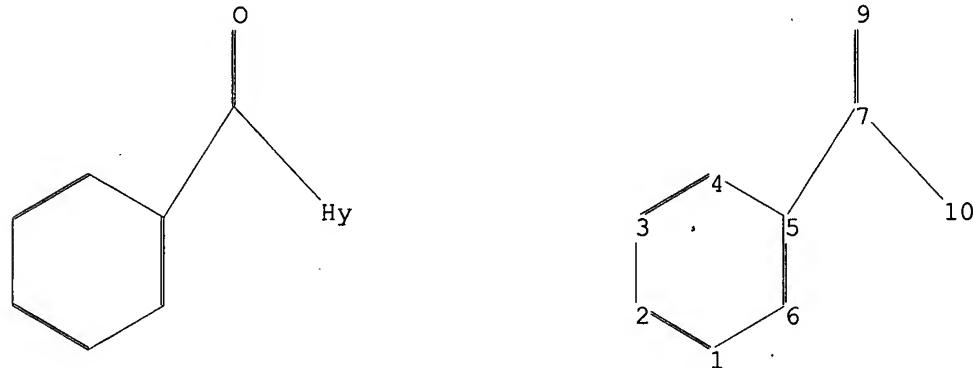
L6 54 SEA SSS FUL L4

=> d 14
L4 HAS NO ANSWERS
L4 STR



Structure attributes must be viewed using STN Express query preparation.

=>
Uploading C:\Program Files\Stnexp\Queries\10506309\FAOM\New Folder\I_b.str



chain nodes :
7 9 10
ring nodes :
1 2 3 4 5 6
chain bonds :
5-7 7-9 7-10
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact/norm bonds :
7-9 7-10
exact bonds :

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5-7

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

isolated ring systems :

containing 1 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:CLASS 10:Atom

Generic attributes :

10:

Number of Carbon Atoms : less than 7

Type of Ring System : Monocyclic

Element Count :

Node 10: Limited

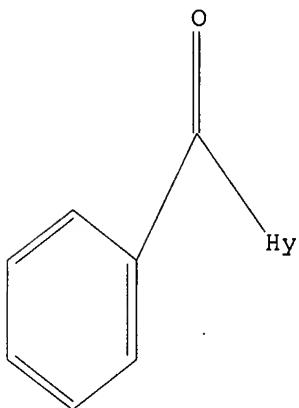
N, N1

L7 STRUCTURE UPLOADED

=> d

L7 HAS NO ANSWERS

L7 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 17

SAMPLE SEARCH INITIATED 08:39:31 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 322215 TO ITERATE

0.6% PROCESSED 2000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

49 ANSWERS

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**

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PROJECTED ITERATIONS: 6411569 TO 6477031
PROJECTED ANSWERS: 152559 TO 163211

L8 49 SEA SSS SAM L7

=> file caplus
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 323.52 323.73

FILE 'CAPLUS' ENTERED AT 08:39:40 ON 07 NOV 2005
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FILE COVERS 1907 - 7 Nov 2005 VOL 143 ISS 20
FILE LAST UPDATED: 6 Nov 2005 (20051106/ED)

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<http://www.cas.org/infopolicy.html>

=> s 13
L9 24 L3

=> s 16
L10 166 L6

=> s 19 and 110
L11 2 L9 AND L10

=> file reg
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 0.90 324.63

FILE 'REGISTRY' ENTERED AT 08:40:59 ON 07 NOV 2005
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DICTIONARY FILE UPDATES: 6 NOV 2005 HIGHEST RN 866821-44-5

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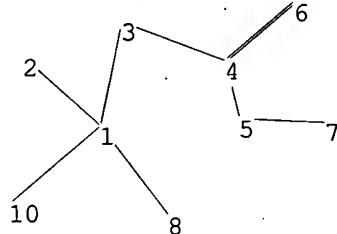
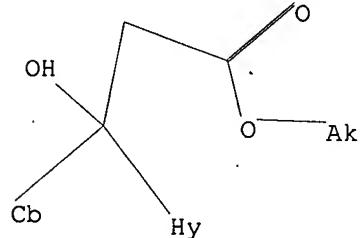
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *

Structure search iteration limits have been increased. See HELP SLIMITS for details.

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<http://www.cas.org/ONLINE/UG/regprops.html>

=>
Uploading C:\Program Files\Stnexp\Queries\10506309\FAOM\New Folder\III_b2.str



chain nodes :
1 2 3 4 5 6 7 8 10

chain bonds :

1-8 1-3 1-2 1-10 3-4 4-5 4-6 5-7

exact/norm bonds :

1-8 1-2 4-5 4-6 5-7

exact bonds :

1-3 1-10 3-4

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:Atom 10:Atom

Generic attributes :

8:

Number of Carbon Atoms : less than 7

Type of Ring System : Monocyclic

Element Count :

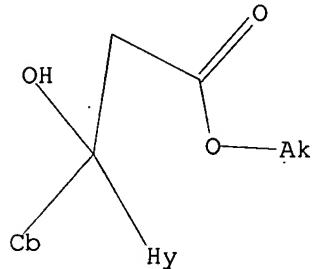
Node 8: Limited

N,N1

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L12 STRUCTURE UPLOADED

=> d
L12 HAS NO ANSWERS
L12 STR



Structure attributes must be viewed using STN Express query preparation.

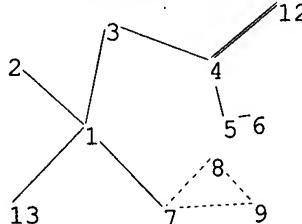
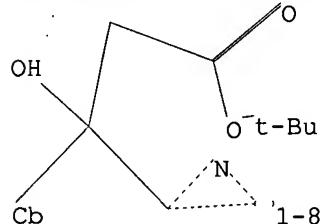
=> s 112
SAMPLE SEARCH INITIATED 08:41:17 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 59170 TO ITERATE

3.4% PROCESSED 2000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 1168908 TO 1197892
PROJECTED ANSWERS: 0 TO 0

L13 0 SEA SSS SAM L12

=>
Uploading C:\Program Files\Stnexp\Queries\10506309\FAOM\New Folder\III_b3.str



chain nodes :
1 2 3 4 5 6 12 13
ring nodes :
7 8 9
chain bonds :
1-7 1-3 1-2 1-13 3-4 4-5 4-12 5-6
ring bonds :
7-8 7-9 8-9
exact/norm bonds :

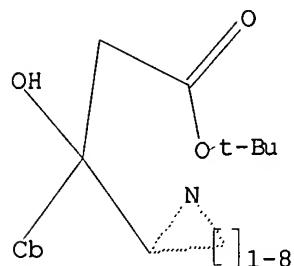
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1-2 4-5 4-12 7-8 7-9 8-9
exact bonds :
1-7 1-3 1-13 3-4 5-6

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:Atom 8:Atom 9:Atom
12:CLASS 13:Atom

L14 STRUCTURE UPLOADED

=> d
L14 HAS NO ANSWERS
L14 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 114
SAMPLE SEARCH INITIATED 08:43:08 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 66 TO ITERATE

100.0% PROCESSED 66 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 833 TO 1807
PROJECTED ANSWERS: 0 TO 0

L15 0 SEA SSS SAM L14

=> s 114 full
FULL SEARCH INITIATED 08:43:14 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 1356 TO ITERATE

100.0% PROCESSED 1356 ITERATIONS 3 ANSWERS
SEARCH TIME: 00.00.01

L16 3 SEA SSS FUL L14

=> file caplus
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION

FULL ESTIMATED COST 162.62 487.25

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=> s 116
L17 2 L16

=> d ibib 1-2

L17 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:719450 CAPLUS
DOCUMENT NUMBER: 139:245905
TITLE: Process for preparation of optically active
β-hydroxy esters
INVENTOR(S): Yamano, Toru; Taya, Naohiro; Ojida, Akio
PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan
SOURCE: PCT Int. Appl., 40 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003074487	A1	20030912	WO 2003-JP2563	20030305
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2478485	AA	20030912	CA 2003-2478485	20030305
JP 2003327577	A2	20031119	JP 2003-58506	20030305

EP 1489070	A1	20041222	EP 2003-708491	20030305
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US 2005107433	A1	20050519	US 2003-506309	20030305
PRIORITY APPLN. INFO.: JP 2002-60402 A 20020306				
WO 2003-JP2563 W 20030305				

OTHER SOURCE(S): MARPAT 139:245905
 REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2002:576071 CAPLUS
 DOCUMENT NUMBER: 137:262610
 TITLE: Highly Enantioselective Reformatskii Reaction of
 Ketones: Chelation-Assisted Enantioface Discrimination
 Ojida, Akio; Yamano, Toru; Taya, Naohiro; Tasaka,
 Akihiro
 CORPORATE SOURCE: Medicinal Chemistry Research Laboratories, Takeda
 Chemical Industries, Ltd., Osaka, 532-8686, Japan
 SOURCE: Organic Letters (2002), 4(18), 3051-3054
 CODEN: ORLEF7; ISSN: 1523-7060
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 137:262610
 REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 111 1-2

L11 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2003:719450 CAPLUS
 DN 139:245905
 TI Process for preparation of optically active β -hydroxy esters
 IN Yamano, Toru; Taya, Naohiro; Ojida, Akio
 PA Takeda Chemical Industries, Ltd., Japan
 SO PCT Int. Appl., 40 pp.
 CODEN: PIXXD2

DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003074487	A1	20030912	WO 2003-JP2563	20030305
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	CA 2478485	AA	20030912	CA 2003-2478485	20030305
	JP 2003327577	A2	20031119	JP 2003-58506	20030305
	EP 1489070	A1	20041222	EP 2003-708491	20030305
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				

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US 2005107433 A1 20050519 US 2003-506309 20030305
PRAI JP 2002-60402 A 20020306
WO 2003-JP2563 W 20030305
OS MARPAT 139:245905

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2002:576071 CAPLUS
DN 137:262610
TI Highly Enantioselective Reformatskii Reaction of Ketones:
Chelation-Assisted Enantioface Discrimination
AU Ojida, Akio; Yamano, Toru; Taya, Naohiro; Tasaka, Akihiro
CS Medicinal Chemistry Research Laboratories, Takeda Chemical Industries,
Ltd., Osaka, 532-8686, Japan
SO Organic Letters (2002), 4(18), 3051-3054
CODEN: ORLEF7; ISSN: 1523-7060
PB American Chemical Society
DT Journal
LA English
OS CASREACT 137:262610
RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file reg
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 5.75 493.00

FILE 'REGISTRY' ENTERED AT 08:45:24 ON 07 NOV 2005
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Structure search iteration limits have been increased. See HELP SLIMITS
for details.

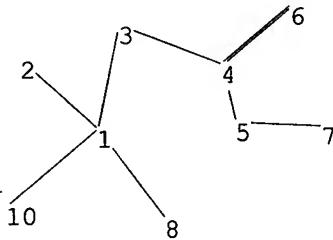
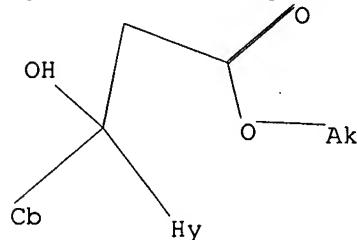
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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10506309\FAOM\New Folder\III_b4.str



chain nodes :

1 2 3 4 5 6 7 8 10

chain bonds :

1-8 1-3 1-2 1-10 3-4 4-5 4-6 5-7

exact/norm bonds :

1-8 1-2 4-5 4-6 5-7

exact bonds :

1-3 1-10 3-4

Connectivity :

7:1 M minimum RC ring/chain

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:Atom 10:Atom

Generic attributes :

8:

Number of Carbon Atoms : less than 7

Type of Ring System : Monocyclic

Element Count :

Node 8: Limited

N, N1

L18 STRUCTURE UPLOADED

=> s 118

SAMPLE SEARCH INITIATED 08:45:39 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 59170 TO ITERATE

3.4% PROCESSED 2000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 1168908 TO 1197892

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PROJECTED ANSWERS: 0 TO 0

L19 0 SEA SSS SAM L18

=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.43	493.43

STN INTERNATIONAL LOGOFF AT 08:45:58 ON 07 NOV 2005

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Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssptabf1626

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
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NEWS 3 JUL 20 Powerful new interactive analysis and visualization software, STN AnaVist, now available
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NEWS 7 SEP 09 ACD predicted properties enhanced in REGISTRY/ZREGISTRY
NEWS 8 OCT 03 MATHDI removed from STN
NEWS 9 OCT 04 CA/CAplus-Canadian Intellectual Property Office (CIPO) added to core patent offices
NEWS 10 OCT 06 STN AnaVist workshops to be held in North America
NEWS 11 OCT 13 New CAS Information Use Policies Effective October 17, 2005
NEWS 12 OCT 17 STN(R) AnaVist(TM), Version 1.01, allows the export/download of CAplus documents for use in third-party analysis and visualization tools
NEWS 13 OCT 27 Free KWIC format extended in full-text databases
NEWS 14 OCT 27 DIOGENES content streamlined
NEWS 15 OCT 27 EPFULL enhanced with additional content

NEWS EXPRESS JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005

NEWS HOURS STN Operating Hours Plus Help Desk Availability
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NEWS WWW CAS World Wide Web Site (general information)

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FILE 'HOME' ENTERED AT 11:09:23 ON 07 NOV 2005

=> file req

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 11:09:31 ON 07 NOV 2005
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STRUCTURE FILE UPDATES: 6 NOV 2005 HIGHEST RN 866821-44-5
DICTIONARY FILE UPDATES: 6 NOV 2005 HIGHEST RN 866821-44-5

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TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

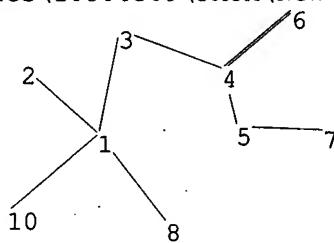
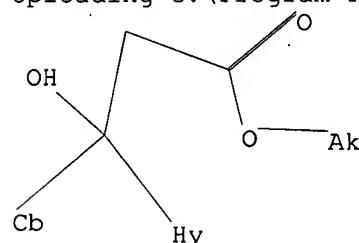
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Structure search iteration limits have been increased. See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
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on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>
Uploading C:\Program Files\Stnexp\Queries\10506309\FAOM\New Folder\form III_d.str



chain nodes :
1 2 3 4 5 6 7 8 10
chain bonds :
1-8 1-3 1-2 1-10 3-4 4-5 4-6 5-7
exact/norm bonds :
1-8 1-2 4-5 4-6 5-7
exact bonds :

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1-3 1-10 3-4

Connectivity :

7:1 M minimum RC ring/chain

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:Atom 10:Atom

Generic attributes :

8:

Saturation : Unsaturated

Number of Carbon Atoms : less than 7

Type of Ring System : Monocyclic

10:

Saturation : Unsaturated

Element Count :

Node 8: Limited

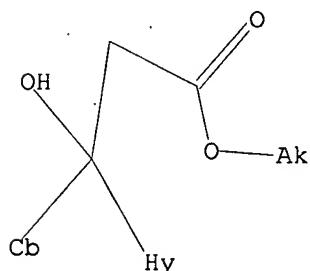
N, N1

L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 11

SAMPLE SEARCH INITIATED 11:09:49 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 59170 TO ITERATE

3.4% PROCESSED 2000 ITERATIONS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 1168908 TO 1197892

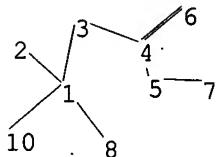
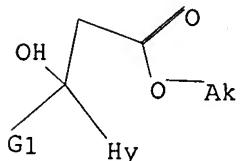
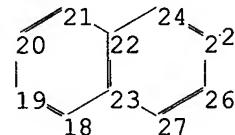
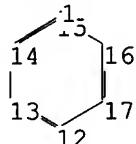
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

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=>

Uploading C:\Program Files\Stnexp\Queries\10506309\FAOM\New Folder\form III_d2.str



chain nodes :
1 2 3 4 5 6 7 8 10
ring nodes :
12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
chain bonds :
1-8 1-3 1-2 1-10 3-4 4-5 4-6 5-7
ring bonds :
12-13 12-17 13-14 14-15 15-16 16-17 18-19 18-23 19-20 20-21 21-22 22-23
22-24 23-27 24-25 25-26 26-27
exact/norm bonds :
1-8 1-2 1-10 4-5 4-6 5-7
exact bonds :
1-3 3-4
normalized bonds :
12-13 12-17 13-14 14-15 15-16 16-17 18-19 18-23 19-20 20-21 21-22 22-23
22-24 23-27 24-25 25-26 26-27

G1:[*1], [*2]

Connectivity :

7:1 M minimum RC ring/chain

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:Atom 10:Atom
12:Atom 13:Atom 14:Atom 15:Atom 16:CLASS 17:Atom 18:Atom 19:Atom 20:Atom
21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom

Generic attributes :

8:

Saturation : Unsaturated
Number of Carbon Atoms : less than 7
Type of Ring System : Monocyclic

Andrew Freistein 10/506, 309

Element Count :
Node 8: Limited
N,N1

L3 STRUCTURE uploaded

=> d
L3 HAS NO ANSWERS
L3 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *
Structure attributes must be viewed using STN Express query preparation.

=> s 13
SAMPLE SEARCH INITIATED 11:12:20 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 19337 TO ITERATE

10.3% PROCESSED 2000 ITERATIONS 1 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 378416 TO 395064
PROJECTED ANSWERS: 7 TO 379

L4 1 SEA SSS SAM L3

=> s 13 full
FULL SEARCH INITIATED 11:12:28 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 384096 TO ITERATE

97.2% PROCESSED 373235 ITERATIONS 39 ANSWERS
100.0% PROCESSED 384096 ITERATIONS 39 ANSWERS
SEARCH TIME: 00.00.27

L5 39 SEA SSS FUL L3

=> file caplus
.COST IN U.S. DOLLARS SINCE FILE TOTAL
FULL ESTIMATED COST ENTRY SESSION
163.48 163.69

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FILE LAST UPDATED: 6 Nov 2005 (20051106/ED)

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=> s 15
L6 25 L5

=> file reg
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 0.45 164.14

FILE 'REGISTRY' ENTERED AT 11:13:11 ON 07 NOV 2005
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* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

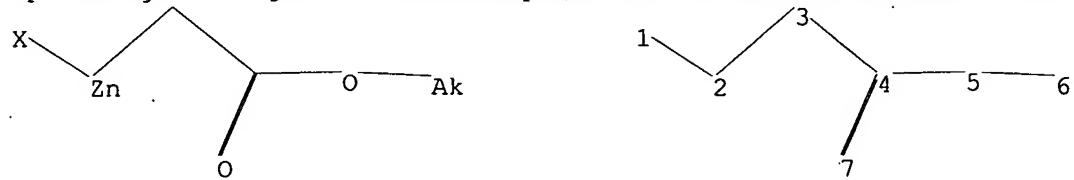
Structure search iteration limits have been increased. See HELP SLIMITS for details.

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=>
Uploading C:\Program Files\Stnexp\Queries\10506309\FAOM\New Folder\II_b.str



chain nodes :
1 2 3 4 5 6 7
chain bonds :
1-2 2-3 3-4 4-5 4-7 5-6
exact/norm bonds :
4-5 4-7 5-6
exact bonds :
1-2 2-3 3-4

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS

L7 STRUCTURE UPLOADED

=> s 17 full
FULL SEARCH INITIATED 11:13:31 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 5743 TO ITERATE

100.0% PROCESSED 5743 ITERATIONS 54 ANSWERS
SEARCH TIME: 00.00.01

L8 54 SEA SSS FUL L7

=> file caplus
COST IN U.S. DOLLARS SINCE FILE TOTAL
FULL ESTIMATED COST ENTRY SESSION
161.33 325.47

FILE 'CAPLUS' ENTERED AT 11:13:36 ON 07 NOV 2005
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FILE LAST UPDATED: 6 Nov 2005 (20051106/ED)

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=> s 18
L9 166 L8

=> s 19 and 16
L10 3 L9 AND L6

=> d ibib abs hitstr 1-3

L10 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:719450 CAPLUS
DOCUMENT NUMBER: 139:245905
TITLE: Process for preparation of optically active
β-hydroxy esters
INVENTOR(S): Yamano, Toru; Taya, Nachiro; Ojida, Akio
PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan
SOURCE: PCT Int. Appl., 40 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003074487	A1	20030912	WO 2003-JP2563	20030305
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2478485	AA	20030912	CA 2003-2478485	20030305
JP 2003327577	A2	20031119	JP 2003-58506	20030305
EP 1489070	A1	20041222	EP 2003-708491	20030305
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US 2005107433	A1	20050519	US 2003-506309	20030305
PRIORITY APPLN. INFO.:			JP 2002-60402	A 20020306
			WO 2003-JP2563	W 20030305

OTHER SOURCE(S): MARPAT 139:245905
AB This invention pertains to a method for producing optically active
β-hydroxy esters represented by the general formula of
HO-C(R1R2)-C(R4R5)-CO2R3 [wherein R1 = H, (un)substituted hydrocarbyl, or
heterocyclyl; R2 = (un)substituted heterocyclyl; R3 = (un)substituted
hydrocarbyl or heterocyclyl; R4 and R5 = independently H, halo,
(un)substituted silyl, hydrocarbyl, or heterocyclyl], characterized by
reacting R1COR2 with X-Zn-C(R4R5)-CO2R3 [where X= halo] in the presence of
a cinchona alkaloid. For example, 2-benzoylpyridine was reacted with a
Reformatskii reagent in THF in the presence of cinchonine and pyridine to
give 3-hydroxy-3-phenyl-3-(pyridin-2-yl)propionic acid tert-Bu ester (98%)

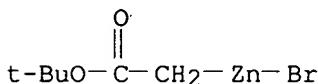
with 90% e.e. This invention provides a method to make optically active β -hydroxy esters in high yield with high e.e.

IT 51656-70-3

RL: RCT (Reactant); RACT (Reactant or reagent)
(Reformatskii reagent; preparation of optically active hydroxy esters using Reformatskii reagent)

RN 51656-70-3 CAPLUS

CN Zinc, bromo[2-(1,1-dimethylethoxy)-2-oxoethyl]- (9CI) (CA INDEX NAME)

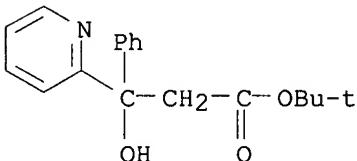


IT 596806-39-2P 596806-40-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
(optically active; preparation of optically active hydroxy esters using Reformatskii reagent)

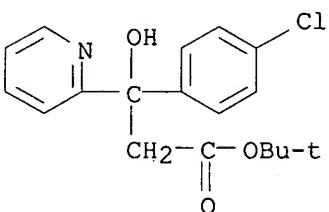
RN 596806-39-2 CAPLUS

CN 2-Pyridinepropanoic acid, β -hydroxy- β -phenyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 596806-40-5 CAPLUS

CN 2-Pyridinepropanoic acid, β -(4-chlorophenyl)- β -hydroxy-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT:

4

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10. ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:570964 CAPLUS

DOCUMENT NUMBER: 139:133566

TITLE: Process for producing fused imidazole compound, Reformatskii reagent in stable form, and process for producing the same

INVENTOR(S): Kawakami, Jun-ichi; Nakamoto, Koji; Nuwa, Shigeru; Handa, Syoji; Miki, Shokyo

PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan

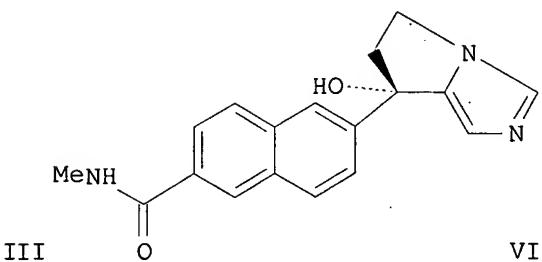
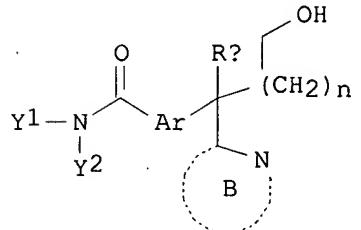
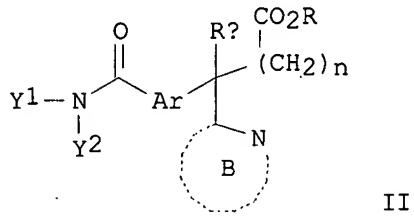
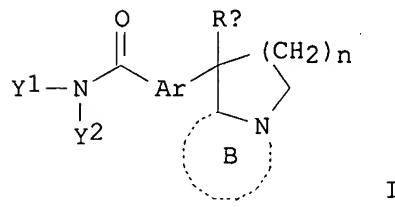
SOURCE: PCT Int. Appl., 141 pp.

CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003059889	A1	20030724	WO 2003-JP300092	20030109
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2472821	AA	20030724	CA 2003-2472821	20030109
JP 2004161726	A2	20040610	JP 2003-3231	20030109
EP 1471056	A1	20041027	EP 2003-700504	20030109
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US 2005043544	A1	20050224	US 2004-500999	20041001
PRIORITY APPLN. INFO.:			JP 2002-3821	A 20020110
			JP 2002-279438	A 20020925
			WO 2003-JP92	W 20030109

OTHER SOURCE(S): MARPAT 139:133566

GI



AB Disclosed are a process for industrially advantageously producing a

steroid C17,20-lyase inhibitor represented by the following general formula [I; Ra = H, a substituent; Ar = (un)substituted aromatic hydrocarbyl; Y1, Y2 = H, a substituent; the ring B = (un)substituted N-containing ring; n = an integer of 1-3] and a Reformatskii reagent in a stable form which is suitable for use in the production process. Either a specific β -hydroxy ester compound derivative (II; R = an ester residue; Ra, Ar, the ring B, Y1,

Y2,

n = same as above) obtained from a specific carbonyl compound by the Reformatskii reaction or a salt of the compound is reduced in the presence of a metal/hydrogen complex compound and a metal halide to an alc. (III; Ra, Ar, the ring B, Y1, Y2, n = same as above) and then subjected to ring closure to thereby obtain a compound represented by the general formula I. In the Reformatskii reaction, a stable solution of the compound represented by $\text{BrZnCH}_2\text{CO}_2\text{C}_2\text{H}_5$ or crystals of the compound represented by $(\text{BrZnCH}_2\text{CO}_2\text{Et} \cdot \text{THF})_2$ are useful. Thus, 10 L THF and 253 mL chlorotrimethylsilane were successively added to 2,616 g Zn powder, stirred at 25° for 30 min, treated dropwise with a solution of 2,212 mL Et bromoacetate in 25 L THF, and stirred at 31-35° for 30 min to give a Reformatskii reagent solution which was treated with 21.2 g (+)-cinchonine at 0-5° and then dropwise with 18.6 mL pyridine at 0-5° over 7 min, stirred at 0-5° for 20 min, treated dropwise with a solution of 30 g N-methyl-6-[(1-trityl-1H-imidazol-4-yl)carbonyl]-2-naphthamide in 300 mL THF over 30 min at -42° to -40°, and stirred at -45° to -40° for 1 h to give, after workup, 29.2 g Et (3S)-3-hydroxy-3-[6-[(methylamino)carbonyl]-2-naphthyl]-3-(1-trityl-1H-imidazol-4-yl)propanoate (IV) (83% yield, 93.5% ee). THF (13 mL) and 0.645 g NaBH4 were successively added to 1.3 g IV and the resulting mixture was treated with 0.95 g CaCl_2 at 2° and then dropwise with 13 mL ethanol over 15 min at 2°, stirred at 3-4° for 30 min and at 40-43° for 4 h to give, after workup, 1.08 g 6-[(1S)-1,3-dihydroxy-1-(1-trityl-1H-imidazol-4-yl)propyl]-N-methyl-2-naphthamide (V) (89% yield, 92.0% ee). THF (7 mL) and 0.42 mL diisopropylethylamine were successively added to 0.35 g V and the resulting mixture was treated dropwise with 0.07 mL methanesulfonyl chloride at 0-5°, stirred at 0-5° for 40 min, treated with 1.8 mL MeOH and 3.5 mL MeCN, and stirred at 60-65° for 4 h to give, after workup, 0.87 g 6-[(7S)-7-hydroxy-6,7-dihydro-5H-pyrrolo[1,2-c]imidazol-7-yl]-N-methyl-2-naphthamide (VI) (62%, 98.2% ee).

IT

53429-22-4P, Methoxycarbonylmethylzinc bromide 53429-23-5P

, Isopropoxycarbonylmethylzinc bromide

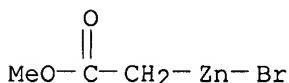
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(THF solution; preparation of fused imidazole compound steroid lyase inhibitor by

Reformatskii reaction using stable alkoxy carbonylmethylzinc bromide, reduction of β -hydroxy esters, and cyclization)

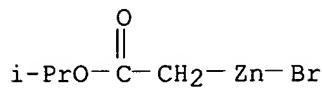
RN 53429-22-4 CAPLUS

CN Zinc, bromo(2-methoxy-2-oxoethyl)- (9CI) (CA INDEX NAME)

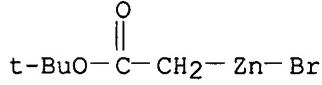


RN 53429-23-5 CAPLUS

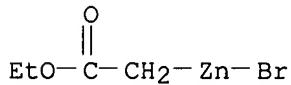
CN Zinc, bromo[2-(1-methylethoxy)-2-oxoethyl]- (9CI) (CA INDEX NAME)



IT **51656-70-3P**, *tert*-Butoxycarbonylmethylzinc bromide
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(THF solution; preparation of stable ethoxycarbonylmethylzinc bromide-THF complex or alkoxy carbonylmethyl zinc bromide solution for Reformatskii reaction of carbonyl compds.)
RN 51656-70-3 CAPLUS
CN Zinc, bromo[2-(1,1-dimethylethoxy)-2-oxoethyl]- (9CI) (CA INDEX NAME)

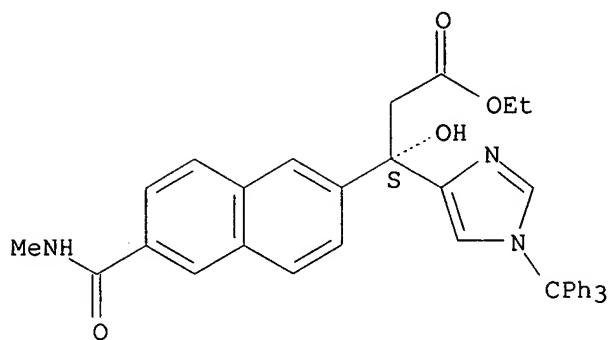


IT **5764-82-9P**, Ethoxycarbonylmethylzinc bromide
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(organic solvent solution; preparation of fused imidazole compound steroid lyase inhibitor by Reformatskii reaction using stable alkoxy carbonylmethylzinc bromide, reduction of β -hydroxy esters, and cyclization)
RN 5764-82-9 CAPLUS
CN Zinc, bromo(2-ethoxy-2-oxoethyl)- (9CI) (CA INDEX NAME)



IT **566200-78-0P**, Ethyl (3S)-3-hydroxy-3-[6-[(methylamino)carbonyl]-2-naphthyl]-3-(1-trityl-1H-imidazol-4-yl)propanoate **566200-80-4P**, Isopropyl (3S)-3-hydroxy-3-[6-[(methylamino)carbonyl]-2-naphthyl]-3-(1-trityl-1H-imidazol-4-yl)propanoate **566200-92-8P** **566200-93-9P** **566200-97-3P**, Ethyl 3-hydroxy-3-[6-[(methylamino)carbonyl]-2-naphthyl]-3-(1-trityl-1H-imidazol-4-yl)propanoate **566200-98-4P**, *tert*-Butyl (3S)-3-hydroxy-3-[6-[(methylamino)carbonyl]-2-naphthyl]-3-(1-trityl-1H-imidazol-4-yl)propanoate
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of fused imidazole compound steroid lyase inhibitor by Reformatskii reaction using stable alkoxy carbonylmethylzinc bromide, reduction of β -hydroxy esters, and cyclization)
RN 566200-78-0 CAPLUS
CN 1H-Imidazole-4-propanoic acid, β -hydroxy- β -[6-[(methylamino)carbonyl]-2-naphthalenyl]-1-(triphenylmethyl)-, ethyl ester, (β S)- (9CI) (CA INDEX NAME)

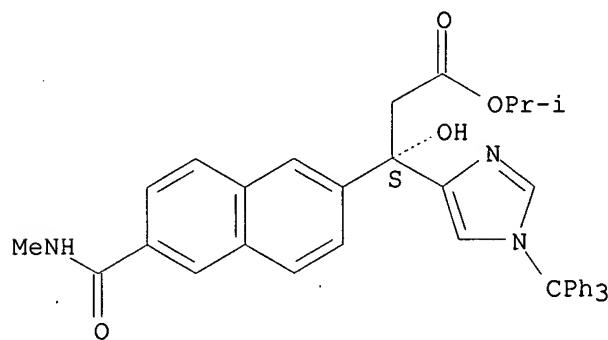
Absolute stereochemistry.



RN 566200-80-4 CAPLUS

CN 1H-Imidazole-4-propanoic acid, β -hydroxy- β -[6-[(methylamino)carbonyl]-2-naphthalenyl]-1-(triphenylmethyl)-, 1-methylethyl ester, (β S)- (9CI) (CA INDEX NAME)

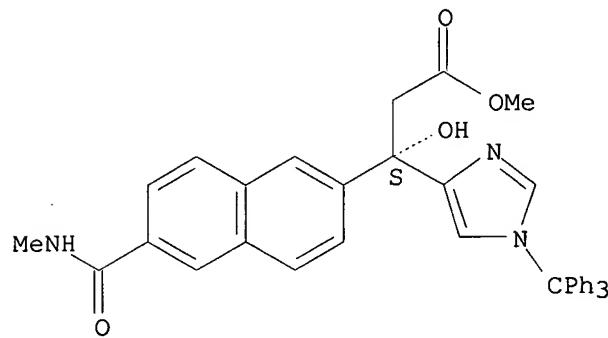
Absolute stereochemistry.



RN 566200-92-8 CAPLUS

CN 1H-Imidazole-4-propanoic acid, β -hydroxy- β -[6-[(methylamino)carbonyl]-2-naphthalenyl]-1-(triphenylmethyl)-, methyl ester, (β S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



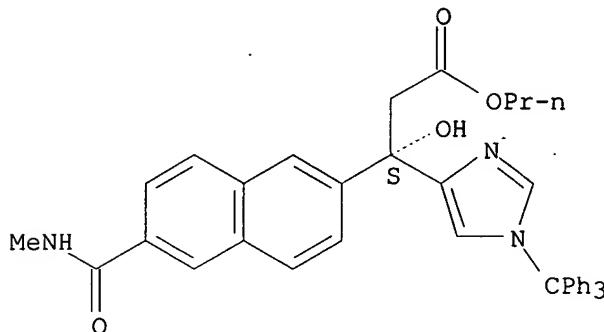
RN 566200-93-9 CAPLUS

CN 1H-Imidazole-4-propanoic acid, β -hydroxy- β -[6-[(methylamino)carbonyl]-2-naphthalenyl]-1-(triphenylmethyl)-, propyl

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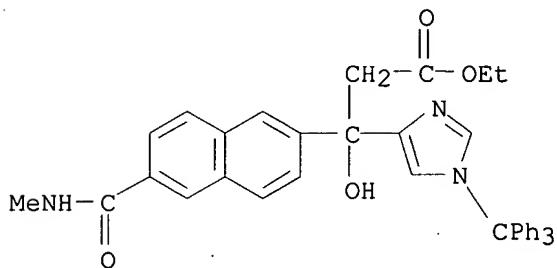
ester, (βS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 566200-97-3 CAPLUS

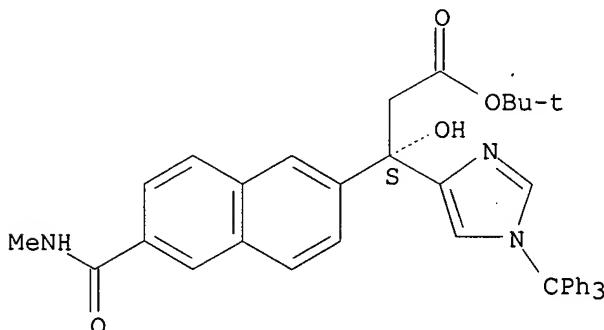
CN 1H-Imidazole-4-propanoic acid, β-hydroxy-β-[6-[(methylamino)carbonyl]-2-naphthalenyl]-1-(triphenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)



RN 566200-98-4 CAPLUS

CN 1H-Imidazole-4-propanoic acid, β-hydroxy-β-[6-[(methylamino)carbonyl]-2-naphthalenyl]-1-(triphenylmethyl)-, 1,1-dimethylethyl ester, (βS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



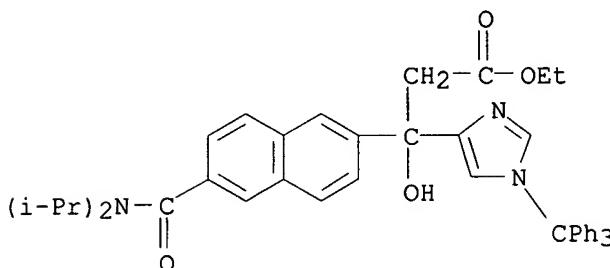
IT 426219-55-8P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of fused imidazole compound steroid lyase inhibitor by

Reformatskii reaction using stable alkoxy carbonylmethylzinc bromide, reduction of β -hydroxy esters, and cyclization)

RN 426219-55-8 CAPLUS

CN 1H-Imidazole-4-propanoic acid, β -[6-[[bis(1-methylethyl)amino]carbonyl]-2-naphthalenyl]- β -hydroxy-1-(triphenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:576071 CAPLUS

DOCUMENT NUMBER: 137:262610

TITLE: Highly Enantioselective Reformatskii Reaction of Ketones: Chelation-Assisted Enantioface Discrimination

AUTHOR(S): Ojida, Akio; Yamano, Toru; Taya, Naohiro; Tasaka, Akihiro

CORPORATE SOURCE: Medicinal Chemistry Research Laboratories, Takeda Chemical Industries, Ltd., Osaka, 532-8686, Japan

SOURCE: Organic Letters (2002), 4(18), 3051-3054

CODEN: ORLEF7; ISSN: 1523-7060

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 137:262610

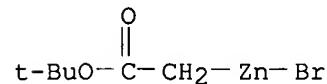
AB Highly enantioselective Reformatskii reaction of ketones was accomplished using cinchona alkaloids as chiral ligands. Chelation with the sp²-nitrogen adjacent to the reactive carbonyl center contributed to the enantioface discrimination for the high enantioselectivities.

IT 51656-70-3

RL: RCT (Reactant); RACT (Reactant or reagent)
(chelation-assisted enantioface discrimination in asym. Reformatskii reactions)

RN 51656-70-3 CAPLUS

CN Zinc, bromo[2-(1,1-dimethylethoxy)-2-oxoethyl]- (9CI) (CA INDEX NAME)



IT 463304-61-2P 463304-66-7P

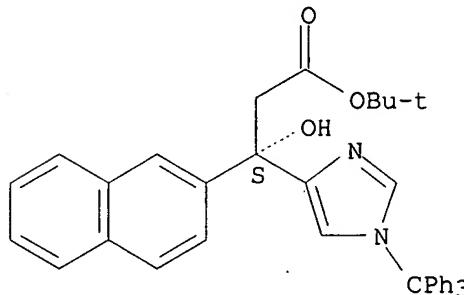
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(chelation-assisted enantioface discrimination in asym. Reformatskii reactions)

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RN 463304-61-2 CAPLUS

CN 1H-Imidazole-4-propanoic acid, β -hydroxy- β -2-naphthalenyl-1-(triphenylmethyl)-, 1,1-dimethylethyl ester, (β S)- (9CI) (CA INDEX NAME)

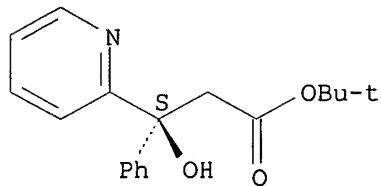
Absolute stereochemistry. Rotation (+).



RN 463304-66-7 CAPLUS

CN 2-Pyridinepropanoic acid, β -hydroxy- β -phenyl-, 1,1-dimethylethyl ester, (β S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



IT 463304-64-5P 463304-67-8P 463304-68-9P

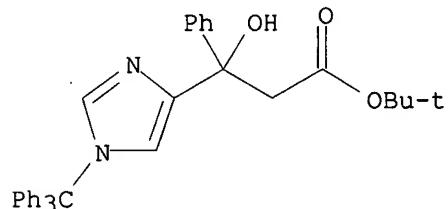
805247-65-8P

RL: SPN (Synthetic preparation); PREP (Preparation)
(chelation-assisted enantioface discrimination in asym. Reformatskii reactions)

RN 463304-64-5 CAPLUS

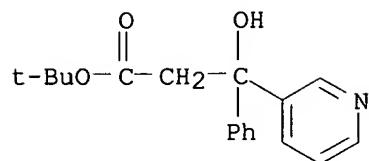
CN 1H-Imidazole-4-propanoic acid, β -hydroxy- β -phenyl-1-(triphenylmethyl)-, 1,1-dimethylethyl ester, (-)- (9CI) (CA INDEX NAME)

Rotation (-).



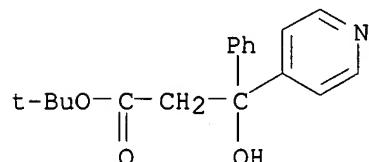
RN 463304-67-8 CAPLUS

CN 3-Pyridinepropanoic acid, β -hydroxy- β -phenyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 463304-68-9 CAPLUS

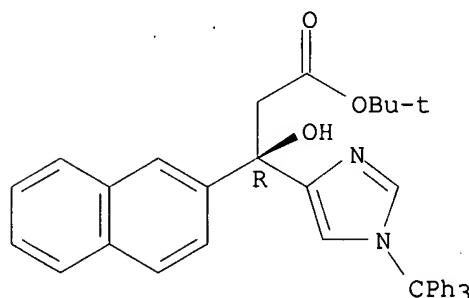
CN 4-Pyridinepropanoic acid, β -hydroxy- β -phenyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 805247-65-8 CAPLUS

CN 1H-Imidazole-4-propanoic acid, β -hydroxy- β -2-naphthalenyl-1-(triphenylmethyl)-, 1,1-dimethylethyl ester, (β R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT:

22

THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=>

---Logging off of STN---

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Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS

SINCE FILE
ENTRY

TOTAL
SESSION

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FULL ESTIMATED COST	16.17	341.64
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY	SESSION
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STN INTERNATIONAL LOGOFF AT 11:15:23 ON 07 NOV 2005